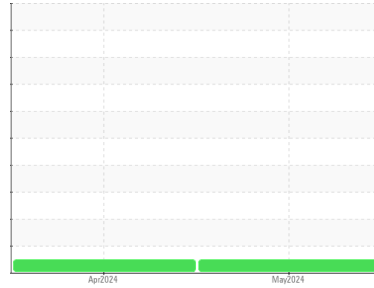




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

(C-GYWN)

Machine Id

[C-GYWN] CESSNA C172N L-7371-761

Component

Piston Aircraft Engine

Fluid

SHELL AEROSHELL W 15W50 MGR (6 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0931004	WC0930994	---
Sample Date	Client Info		29 May 2024	22 Apr 2024	---
TSN	hrs	Client Info	0	0	---
TSO	hrs	Client Info	112	15	---
Oil Age	hrs	Client Info	37	1	---
Oil Changed		Client Info	Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	---
Water	WC Method	>0.1	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	18	5
Chromium	ppm	ASTM D5185(m)	>20	3	<1
Nickel	ppm	ASTM D5185(m)	>15	2	<1
Titanium	ppm	ASTM D5185(m)		0	0
Silver	ppm	ASTM D5185(m)	>5	0	0
Aluminum	ppm	ASTM D5185(m)	>25	6	2
Lead	ppm	ASTM D5185(m)	>20000	3642	340
Copper	ppm	ASTM D5185(m)	>25	8	3
Tin	ppm	ASTM D5185(m)	>30	0	0
Antimony	ppm	ASTM D5185(m)		0	0
Vanadium	ppm	ASTM D5185(m)		0	0
Beryllium	ppm	ASTM D5185(m)		0	0
Cadmium	ppm	ASTM D5185(m)		3	8

ADDITIVES

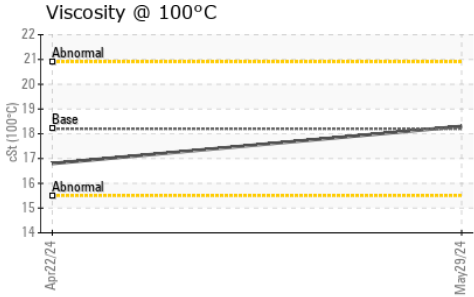
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	<1
Barium	ppm	ASTM D5185(m)		0	0
Molybdenum	ppm	ASTM D5185(m)	5	0	0
Manganese	ppm	ASTM D5185(m)		0	<1
Magnesium	ppm	ASTM D5185(m)	10	<1	1
Calcium	ppm	ASTM D5185(m)	10	<1	<1
Phosphorus	ppm	ASTM D5185(m)	1280	1084	1054
Zinc	ppm	ASTM D5185(m)	10	5	6
Sulfur	ppm	ASTM D5185(m)	1800	1518	1337
Lithium	ppm	ASTM D5185(m)		<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	12	10
Sodium	ppm	ASTM D5185(m)		<1	<1
Potassium	ppm	ASTM D5185(m)	>20	0	0



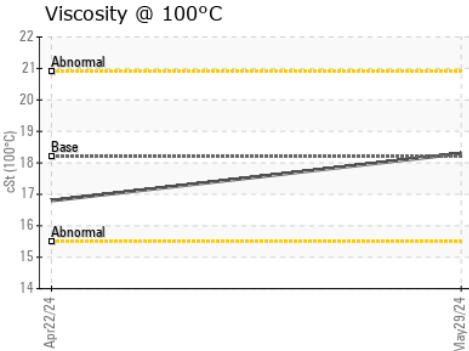
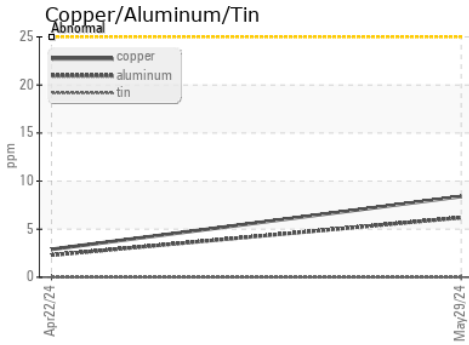
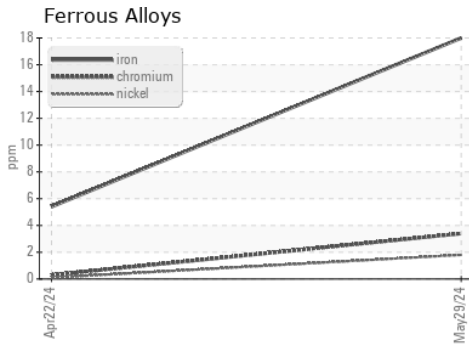
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	18.2	18.3	16.8	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0931004 **Received** : 10 Jul 2024
Lab Number : **02646981** **Tested** : 10 Jul 2024
Unique Number : 5812533 **Diagnosed** : 10 Jul 2024 - Kevin Marson
Test Package : AVI 1

ROCKCLIFFE FLYING CLUB
 1495 SIR GEORGE-ETIENNE, CARTIER PARKWAY MAINTENANCE
 OTTAWA, ON
 CA K1K 4Y5
 Contact: Patrick Giunta
 maintenance@rfc.ca
 T: (613)746-4425
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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.